

# Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <a href="http://about.jstor.org/participate-jstor/individuals/early-journal-content">http://about.jstor.org/participate-jstor/individuals/early-journal-content</a>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

## INDEX TO VOLUME X

A	herodias, 38, 78, 83, 126, 137, 158, 197, 202, 229
41.11 1.11 11.40	herodias treganzai, 190
Abdimia abdimii, 12	virescens anthonyi, 137, 197
Acanthis linaria, 23, 171	Ardetta exilis, 197
Accipiter atricapillus, 162	Arenaria melanocephala, 79, 83, 126, 130
cooperi, 108, 129, 138, 147, 162	morinella, 50
velox, 66, 108, 161	Asio accipitrinus, 41, 162
Actitis macularia, 20, 83, 126, 130, 160, 197,	wilsonianus, 138, 147, 162, 197, 203
235	Astragalinus lawrencei, 67
Actodromas bairdii, 159	psaltria, 138, 149, 171, 198
maculata, 159	psaltria hesperophilus, 67, 113, 128, 222
minutilla, 159	tristis, 23
Adams, Samuel, notes on the Rhea or South	tristis pallidus, 149, 171
American Ostrich, 69	tristis salicamans, 42, 138, 204
Æchmophorus occidentalis, 38, 156, 186, 196,	Asyndesmus lewisi, 164
201	Auk, Great, 6
Ægialitis nivosa, 93, 126, 197	Auklet, Cassin, 49, 82, 125
vocifera, 126, 137	Rhinoceros, 49,125
Aeronautes melanoleucus, 66, 84, 110, 127, 138,	Avocet, American, 159, 197, 203
165, 192	Aythya affinis, 83
Agelaius gubernator californicus, 204	americana, 197
tricolor, 198	
phœniceus, 22, 113, 148, 170	В
phœniceus arctolegus, 93	Ъ
phœniceus fortis, 93	Bæolophus inornatus griseus, 178
phœniceus neutralis, 93, 138, 204	wollweberi, 77
Aimophila cassini, 114	wollweberi annexus, 116
ruficeps, 114	Baldpate, 157
ruficeps ruficeps, 114 Allen, Glover M., see Townsend, C. W.	Bangs, Outram, see Thayer, John E.
Alues pretincels 197 203	Bartramia longicauda, 160
Aluco pratincola, 197, 203 Ammodramus sandwichensis alaudinus, 128	Beebe, C. W., review of his "Geographic Vari-
sandwichensis bryanti, 128	ation in Birds, with especial reference to
Ampelis cedrorum, 43, 114, 150	the effect of Humidity'', 97
garrulus, 175	Bittern, American, 39, 158, 197, 202
Amphispiza belli, 85	Least, 197
bilineata deserticola, 149	Blackbird, Bicolored, 204
nevadensis, 149, 175	Brewer, 23, 42, 112, 138, 149, 170, 198, 219,
nevadensis canescens, 201, 204	221
Anas boschas, 38, 157	Red-winged, 22, 112, 148, 170, 182
platyrhynchos, 201	San Diego Red-winged, 138, 204
Anderson, Rudolph M., review of his "Birds of	Tricolored, 198
Iowa'', 54; nesting of the Pine Siskin at	Yellow-headed, 22, 94, 112, 148, 169, 198,
Great Slave Lake, 234	204
Anser gambeli, 126	Blackwelder, Eliot, review of his "Report on
Anthus arboreus, 223	Zoology'', 53
pensilvanicus, 24, 43, 86, 115, 128, 151,	Bluebird, California, 44
177	Chestnut-backed, 116, 151, 180, 206
Aphelocoma californica, 42, 138, 204	Mountain, 26, 44, 50, 116, 151, 180
californica californica, 222	Western, 139, 198, 205
insularis, 127	Bobolink, 22, 169
sieberi arizonæ, 77, 112	Bob-white, 160
woodhousei, 22, 78, 112, 148, 168	Botaurus lentiginosus, 39, 158, 197, 202
Aguila chrysaetos, 20, 40, 109, 138, 147, 162	Bowles, J. H., the Tawny Creeper in western
Archibuteo ferrugineus, 147, 162	Washington, 27; odds and ends from Wash-
lagopus sancti-johannis, 40	ington State, 129; a few summer birds of
Ardea candidissima, 20, 197	Lake Chelan, Washington, 191
egretta, 197	Brant, Black, 39

Chaffinch European, 238

Branta canadensis, 39, 158 Chamæa fasciata, 139 fasciata intermedia, 222 canadensis hutchinsii, 158 nigricans, 39 fasciata phæa, 43 Bubo magellanicus pallescens, 109 fasciata rufula, 44 Chambers, W. Lee, the present status of the virginianus icelus, 41 virginianus pacificus, 41, 138, 197, 203 Least Tern in Southern California, 237 virginianus pallescens, 14, 21, 147, 163 Charitonetta albeola, 158 Bubulcus lucidus, 13 Chaulelasmus streperus ,157 Bufflehead, 158 Chat, Long-tailed, 24, 151, 177, 198, 205 Bunting, Lark, 24, 114, 150 Chen hyperborea, 158 Lazuli, 24, 68, 139, 150, 173 Chickadee, Chestnut-backed, 43, 181 Long-tailed, 177, 194 Buphaga erythrorhyncha, 13 Bush-tit, California, 129, 139, 205, 222 Mountain, 26, 43, 151, 179 Lead-colored, 77, 116, 151, 179 Santa Cruz, 221 Sacramento, 44 Southern California, 29 Chondestes grammacus strigatus, 23, 42, 128, Bustard, Crested, 13 Buteo abbreviatus, 181 138, 149, 172, 198, 204 borealis calurus, 20, 40, 66, 83, 108, 127, Chordeiles acutipennis texensis, 204 138, 147, 162, 181, 187, 203 virginianus henryi, 21, 148, 165 lineatus elegans, 197 Ciconia alba, 12 swainsoni, 109, 138, 147, 162 Cinclus mexicanus, 24, 43, 177 Butorides virescens anthonyi, 202 Circus hudsonius, 20, 40, 108, 161, 197, 203 Buzzard, Turkey, 20, 40, 108 Clangula islandica, 158 Clark, Austin H., review of his "Eighteen New Species and One New Genus of Birds from C Eastern Asia and the Aleutian Islands," 54 Calamospiza melanocorys, 24, 114, 150 Coccyzus americanus occidentalis, 164, 197, Calcarius ornatus, 113 Calidris arenaria, 79, 126 Colaptes cafer collaris, 21, 41, 66, 84, 110, 138, Callipepla squamata, 93, 108 147, 164, 197, 203, 221 rufipileus, 104, 127 Calypte anna, 66, 127, 138 Colinus virginianus, 160 Campephilus imperialis, 91 Colorado Biological Society, notice of the An-Canvasback, 158 nual Meeting of, 96 Carpodacus amplus, 105 Columba fasciata, 40, 108, 137, 161 cassini, 23, 42, 113, 170 clementis, 84, 128 Colymbus californicus, 186 nigricollis californicus, 20, 82, 125, 156 mexicanus clementis, 67 Condor, California, 5, 59, 130, 137, 208 mexicanus frontalis, 113, 138, 149, 170, 198, 204, 221 Contopus borealis, 148, 221 purpureus californicus, 127, 138, 222 richardsoni, 21, 77, 111, 138, 167 Carriger, H. W., and J. R. Pemberton, some richardsoni richardsoni, 127, 221 notes on the Great Blue Heron, 78 Cooper Club, directory of members of the, 209 Cooper Club minutes, 56, 98, 127, 184, 240 Catbird, 25, 151, 177, 191, 193 Cathartes aura, 20, 40, 108, 138, 147, 161 Coot, American, 20, 39, 126, 159, 197, 202 Cormorant, Baird, 38, 48, 83, 126 aura septentrionalis, 197, 203 Catherpes mexicanus conspersus, 115, 178 Brandt, 48, 82, 126 mexicanus punctulatus, 128 Farallon, 38, 82, 126, 186, 189, 196, 201, 209 Centrocercus urophasianus, 20, 166 White-crested, 48 Centronyx bairdii, 113 Corvus americanus hesperis, 138 Centurus uropygialis, 76, 110 brachyrhynchos hesperis, 42, 198, 204 Ceophlæus pileatus abieticola, 41 corax sinuatus, 22, 42, 67, 84, 112, 127, 130, Cepphus columba, 49, 125 148, 168, 204 Cerchneis sparveria phalæna, 104 cryptoleucus, 92, 112 Cerorhinca monocerata, 49, 125 Coturnix capensis, 13 Certhia familiaris, 27 Cowbird, 22, 148, 169, 198 familiaris albescens, 116 Cractes obscurus griseus, 42 familiaris montanus, 151, 178 obscurus obscurus, 42 familiaris occidentalis, 27, 43 Crane, Sandhill, 39, 159, 202 Ceryle alcyon, 21, 41, 84, 127, 130, 164, 222 Creeper, Rocky Mountain, 151, 178 Sierra, 27, 43 torquatus, 229 Chætura vauxi, 221, 222 Sierra Madre, 116

Tawny, 27

Crossbill, 139 Mexican, 171 White-winged, 141 Crow, California, 42, 138, 204 Clarke, 192 Northwest, 47 Western, 198 Crymophilus fulicarius, 104, 126 Cryptoglaux acadica, 94, 163 Cuckoo, California, 164, 197, 203 Curley, Long-billed, 160, 203 Cyanocephalus cyanocephalus, 22, 148, 169 Cyanocitta stelleri carbonacea, 42, 134, 219, 221 stelleri diademata, 22, 78, 112, 148, 168 stelleri frontalis, 41, 134 Cyanospiza amœna, 24, 68, 139, 150, 173 Cypseloides niger, 192 niger borealis, 165 Cyrtonyx montezumæ mearnsi, 108

### D

Dafila acuta, 39, 158, 197, 202 Daggett, Frank S., a bit of early California natural history, 135 Dawson, Wm. L., the new reserves on the Washington coast, 45 Dendragapus obscurus, 20, 161 obscurus fuliginosus, 40 Dendrocygna bicolor, 202 Dendroica æstiva, 24, 46, 68, 150, 176 æstiva brewsteri, 198, 205 auduboni, 24, 43, 76, 86, 115, 133, 150, 176 blackburniæ, 92 nigrescens, 43, 76, 115, 133, 150, 176 striata, 235 townsendi, 76, 94, 115, 128, 176, 193 D'Evelyn, Dr. F. W., locust-destroying birds of the Transvaal, 10; notes on the waltzing instinct in ostriches, 119 Dilophus caruncullatus, 12 Diomedea nigripes, 103 Dipper, American, 177 Dixon, Joseph, field notes from Alaska, 139; a family of young duck hawks, 198 Dolichonyx oryzivorus, 22, 169 Dove, Cape Turtle, 13 Mourning, 20, 66, 83, 108, 127, 137, 147, 161, 197, 203 White-winged, 129 Dowitcher, Long-billed, 203 Dryobates arizonæ, 76, 110 nuttalli, 138, 198 pubescens gairdneri, 41 pubescens homorus, 147, 164 pubescens turati, 138, 203, 222 scalaris bairdi, 110 villosus hyloscopus, 109, 138 villosus monticola, 147, 164 Duck, American Scaup, 158

Canvasback, 158

Fulvous Tree, 202

Harlequin, 158, 224 Lesser Scaup, 83, 158 Long-tailed, 224 Pintail, 39, 158, 197, 202 Redhead, 158, 197, 202 Ruddy, 158, 197, 202 Shoveller, 39, 158, 202

#### E

Eagle, Bald, 66, 83, 127, 130, 162 Golden, 20, 40, 109, 138, 147, 162 Northern Bald, 140 Editorial notes, 51, 95, 131, 183, 209, 240 Egret, 197, 202, 209 White, 13 Egretta candidissima, 229 Empidonax difficilis, 67, 84, 111, 127, 138, 167 griseus, 111 hammondi, 111, 167 trailli, 167, 198, 204 wrighti, 148, 167 Ereunetes occidentalis, 79 mauri, 203 Erismatura jamaicensis, 158, 197, 202 Euethia, 227 Euphagus cyanocephalus, 23, 42, 112, 170, 196, 219, 221 Eupsychortyx, 226

#### F

Falco columbarius, 109, 127, 147, 163 mexicanus, 138, 147, 168 peregrinus anatum, 83, 109, 127, 163 richardsoni, 163 sparverius, 21, 40, 83, 138, 147 sparverius phalœna, 109, 127, 163, 197, 203 Falcon, Peale, 47 Prairie, 138, 147, 168 Ferry, John F., notes from the diary of a naturalist in Northern California, 30; month's bird-collecting in Venezuela, 225 Field and study, from, 50, 91, 129, 207, 236 Finch, California Purple, 128, 138, 222 Cassin, 23, 42, 113, 170 House, 44, 113, 138, 149, 170, 198, 204, 221 San Clemente House, 128 Finley, Wm. L., life history of the California Condor, 5, 59; review of his "American Birds Studied and Photographed from Life", 52 Fleming, J. H., dates that are not data, 91 Flicker, Red-shafted, 21, 41, 66, 84, 110, 127, 138, 147, 164, 197, 203, 221 Flycatcher, Ash-throated, 21, 138, 148, 166, 198, Buff-breasted, 207

Gray, 111

Hammond, 111, 167

Olivaceous, 77

Traill, 167, 198, 204 Vermilion, 44, 91, 111 Western, 67, 84, 111, 127, 138, 167 Wright, 148, 167 Fringilla cœlebs, 238 Fulica americana, 20, 39, 126, 159, 197, 202 Fulmar, Pacific, 50, 82, 126, 238 Fulmarus glacialis glupischa, 82, 126, 238 Gadwall, 157 Galeoscoptes carolinensis, 25, 151, 177, 193 Gallinago delicata, 40, 159 Gavia immer, 157, 186 pacifica, 125 Geococcyx californianus, 13, 109, 138, 197, 203 Geothlypis tolmiei, 150, 177 trichas arizela, 43, 205 trichas occidentalis, 150, 177 Gifford, E. W., the rehabilitation of the California Academy of Sciences, 95 Glareola, 12 Glaucidium gnoma, 164 Gnatcatcher, Plumbeous, 45 Western, 129, 139, 151, 179, 205, 239 Godman, F. du Cane, review of his "A Monograph of the Petrels", 96 Golden-eye, Barrow, 158 Goldfinch, 23 Arkansas, 128, 138, 149, 171, 198 Green-backed, 67, 113, 222, 237 Lawrence, 67 Pale, 149 Western, 171 Willow, 42, 138, 204 Goldman, E. A., the Green-winged Teal breeding in California, 129; the Virginia Rail (Rallus virginianus) breeding in Mexico, 181; summer birds of the Tulare Lake region, 200 Goose, American White-fronted, 126 Canada, 39, 158, 209 Hutchins, 141, 158 Lesser Snow, 158 Goshawk, American, 162 Grebe, American Eared, 20, 82, 125, 156, 186, 209 Pied-billed, 38, 196, 201 Western, 38, 156, 186, 196, 201 Grinnell, Joseph, the Southern California

Chickadee, 29; Goonies of the desert, 92;

Catalina Quail, 94; some birds of Anacapa

Island, 130; birds of a voyage on Salton Sea, 185; subspecific names in the Genus

Passerella, 237; the California record of

the Cape Robin open to question, 238

Grosbeak, Black-headed, 24, 114, 139, 150, 173,

220

Olive-sided, 41, 77, 148, 167, 221

Rocky Mountain Pine, 170 Western Blue, 150, 198, 205 Western Evening, 170, 192 Grouse, Dusky, 20, 40, 161 Prairie Sharp-tailed, 161 Sage, 20, 161 Grus mexicana, 39, 159, 202 Guillemot, Pigeon, 49, 125 Guinea-fowl, 13 Guiraca cærulea lazula, 150, 198, 205 Gull, California, 82, 198, 209 Glaucus, 47 Heerman, 82, 125 Ring-billed, 38, 157, 186, 209 Western, 47, 125 Gymnogyps californianus, 5, 59, 130, 137, 197

#### Η

Hæmatopus bachmani, 47, 126, 130 Haliæetus leucocephalus, 66, 83, 127, 130, 162 Hawk, American Rough-legged, 40 Cooper, 108, 138, 147, 162 Desert Sparrow, 127, 163, 197, 206 Duck, 83, 109, 127, 142, 162, 198 Ferruginous Rough-legged, 147, 162 Fish, 40, 83 Marsh, 20, 40, 108, 161, 197, 203 Mexican Black, 116, 181 Pigeon, 109,127, 147, 162 Red-bellied, 199 Sharp-shinned, 66, 108, 161 Sparrow, 21, 40, 47, 83, 138, 147, 203, 203, Swainson, 109, 138, 147, 162 Western Red-tailed, 20, 40, 66, 83, 108, 127, 138, 147, 162, 197, 203 Heleodytes brunneicapillus couesi, 115 Helminthophila celata celata, 128 celata lutescens, 46, 176 celata sordida, 68 luciæ, 76, 150 rubricapilla gutturalis, 43 sordida, 86, 128 virginiæ, 176 Helodromas solitarius cinnamomeus, 160 Henderson, Junius, the Mountain Bluebird in Northern Arizona, 94 Herodias egretta, 202 Heron, Anthony Green, 137, 197, 202 Black-crowned Night, 78, 159, 197, 202, 209 Great Blue, 39, 78, 83, 126, 137, 158, 186, 190, 197, 202, 209 Snowy, 20, 197, 229 Hesperiphona vespertina montana, 170, 192 Heteractitis incanus, 83, 104, 126, 130 Himantopus mexicanus, 159, 197, 203 Hirundo erythrogaster, 24, 43, 46, 150, 175, 205 Histrionicus histrionicus, 158

Hummingbird, Allen, 66, 84, 127 Anna, 66, 127, 138 Black-chinned, 110, 148 Broad-tailed, 21, 110, 148, 165, 195, 207 Bryant Hybrid, 207 Calliope, 192 Costa, 44 Rivoli, 207 Rufous, 46, 165 Hydrochelidon nigra surinamensis, 20, 157, 196, 201 Hylocichla guttata auduboni, 116, 151, 179 guttata guttata, 44, 116	Junco, Arizona, 113, 206 Coues, 172 Gray-headed, 23, 75, 113, 149, 172 Intermediate, 23, 149 Montana, 172 Oregon, 130 Pink-sided, 23, 113, 149, 172 Point Pinos, 221 Shufeldt, 42, 113 Slate-colored, 149, 235 Thurber, 42, 85, 128 White-winged, 172
guttata nana, 68, 86, 129, 151	K
guttata slevini, 44, 121, 133, 134, 221 ustulata, 86	<del></del>
ustulata swainsoni, 179, 193 ustulata ustulata, 44, 46, 129, 221	Kaeding, Henry B., retrospective, 215 Kestrel, South African, 13 Killdeer, 20, 40, 78, 126, 137, 160, 197, 203
I	King of the kopje, 13 Kingbird, 165, 191 Arkansas, 84, 110, 138, 165, 198, 204
Ibis, Hadadah, 13	Cassin, 44, 127, 148, 165 Eastern, 21
White-faced Glossy, 197, 202, 209	Western, 21, 148
Icteria virens longicauda, 21, 151, 177, 198, 205	Kingfisher, Belted, 21, 41, 84, 127, 130, 164, 222
Icterus bullocki, 22, 84, 138, 149, 170, 198, 204 cucullatus nelsoni, 67	Kinglet, Ruby-crowned, 26, 116, 129, 139, 151, 179
parisorum, 75, 112 Iridoprocne bicolor, 175, 205	Western Golden-crowned, 44, 123, 133, 179
Ixoreus nævius, 44, 86, 91, 118, 119	Kittiwake, Pacific, 238
, , , ,	<u>_</u>
· •	L
$_{ m J}$	- 4.1
	Lagopus leucurus altipetens, 20
Jay, Arizona, 77, 112	Lanius anthonyi, 128
Blue-fronted, 41, 134	borealis, 175 ludovicianus anthonyi, 182
California, 42, 138, 204, 222	ludovicianus excubitorides, 24, 43, 115, 150,
Canada, 235 Coast, 42, 133, 219, 221	175
Gray, 42	ludovicianus gambeli, 92, 198, 205
Long-crested, 22, 78, 112, 148, 168, 206	ludovicianus mearnsi, 182
Oregon, 42	mearnsi, 85
Pinyon, 22, 148, 169	Lanivireo solitarius plumbeus, 230
Rocky Mountain, 22, 168	Lark, Desert Horned, 21, 167
Santa Cruz Island, 127	Horned, 138
Steller, 133	Island Horned, 84, 127 Mexican Horned, 204
Woodhouse, 22, 78, 112, 148, 168 Jordan, Dr. David S., review of his "Evolution	Montezuma Horned, 111
and Animal Life", 52	Pallid Horned, 148
Junco aikeni, 172	Scorched Horned, 111
caniceps, 23, 75, 113, 149, 172	Larus californicus, 82, 196
hyemalis, 149, 235	delawarensis, 38, 157, 186, 190
hyemalis connectens, 23, 149, 172	glaucescens, 47
hvemalis hvemalis, 92	heermani, 82, 125

occidentalis, 47, 104, 125

Leucosticte atrata, 23

australis, 23, 171 Leucosticte, Black, 23 Brown-capped, 23, 171 Hepburn, 141 Linnet, Pine, 23, 113

San Clemente, 67, 84

hyemalis hyemalis, 92

hyemalis oregonus, 130

hyemalis pinosus, 92, 221

insularis, 106 mearnsi, 23, 113, 149, 172

oregonus thurberi, 42, 85, 128 oregonus shufeldti, 42, 113 phæonotus palliatus, 75, 113

montanus, 172

Linton, C. B., Dafila acuta breeding at Buena Vista Lake, Kern County, California, 50; Pacific Fulmar in San Diego Bay, 50; notes from San Clemente Island, 82; notes from Santa Cruz Island, 123; Salpinctes obsoletus pulverius restricted to San Nicolas Island, 129; a correction, 181; microscopic subspecies, 181; Otocoris alpestris insularis on the mainland coast, 181; Forbush Sparrow in Southern California, 182; is not the San Clemente Shrike (Lanius 1. mearnsi) identical with the Island Shrike, (Lanius 1. anthonyi)?, 182; notes from Buena Vista Lake, May 20 to June 16, 1907, 196; Pipilo clementæ excluded from Santa Cruz Island avifauna, 208; Pacific Fulmars and Pacific Kittiwakes at Long Beach, 238; early record of Passerculus rostratus in Los Angeles County, 239

Longspur, Chestnut-collared, 113 Loon, 157, 186 Pacific, 125 Lophodytes cucullatus, 157 Lophortyx californicus, 160 californicus californicus, 40, 221 californicus vallicola, 40, 203 catalinensis, 66, 94 gambeli, 108, 147

Loxia curvirostra stricklandi, 171 Lunda cirrhata, 48

#### Μ

Macrorhamphus scolopaceus, 203 Magpie, American, 168 Black-billed, 22, 41, 148 Yellow-billed, 138, 204 Mailliard, Joseph, San Geronimo notes, 94; migration wave of Varied Thrushes, 118; Cooper Hawks attacking crows, 129; Sierran forms on the coast of Sonoma County, California, 133; the southern limit of the chestnut-backed Chickadee (Parus rufescens) on the California coast, 181 Mallard, 38, 157, 201

Mareca americana, 157 Marila affinis, 158 americana, 158, 202 marila, 158 vallisneria, 158 Martin, Purple, 24, 174 Western, 139

Massey, Herbert, arrangement of an oological collection, 223

McGregor, Richard C., the Bryant hybrid hummingbird, 207

Meadowlark, Mexican, 112

Western, 22, 42, 84, 112, 128, 138, 149, 170, 198, 204

Megascops asio cineraceus, 109 Melanerpes erythrocephalus, 21 formicivorus, 76

formicivorus bairdi, 41, 138, 222 torquatus, 21, 41 Meleagris gallopavo merriami, 147 Melopelia leucoptera, 129 Melospiza cinerea cleonensis, 43 cinerea cooperi, 182 cinerea heermani, 205 cinerea montana, 23 cinerea morphna, 46 cinerea samuelis, 43 clementæ, 85 graminea, 128 lincolni, 114, 150, 173 lincolni lincolni, 43 lincolni striata, 182 melodia heermani, 198 melodia montana, 149, 173 pusillula, 79 Merganser americanus, 20 serrator, 79, 126 Merganser, American, 20, 157 Hooded, 157 Red-breasted, 79, 126, 157 Mergus americanus, 157 serrator, 157 Merlin, Richardson, 163 Merula confinis, 238 migratoria propinqua, 26, 44, 151, 239 ing habits of the Phainopepla, 72

formicivorus aculeatus, 110

Metz, Chas. W., the nesting of the Rocky Mountain Screech Owl in Wyoming, 143; Meyers, Harriet W., observations on the nest-Micruria hypoleuca, 104 Miller, Loye Holmes, Louisiana Water-Thrush

in California, 236 Mimus polyglottos, 24, 45

polyglottos leucopterus, 68, 86, 128, 151, 177, 198, 205

Mockingbird, 24, 45 Western, 68, 86, 128, 151, 177, 198, 205

Molothrus ater, 22, 148, 169 Murre, California, 46 Murrelet, Xantus, 125

Myadestes townsendi, 26, 44, 116, 151, 179 Myiarchus cinerascens, 21, 138, 148, 166, 198,

lawrencei olivaceus, 77

#### N

Nannus hiemalis pacificus, 43, 121, 219, 221 Nettion carolinense, 201 carolinensis, 129, 157, 198 Nighthawk, Texas, 204 Western, 21, 148, 165, 206 Nucifraga columbiana, 22, 42, 148, 168, 192 Numenius americanus, 203 hudsonicus, 126 longirostris, 79, 160 Numida coronata, 13 Nutcracker, Clarke, 22, 42, 148, 168

Nuthatch, Canada, 43	Palmer, T. S., the European Chaffinch at Ber-
Pygmy, 25, 116, 151, 128	keley, California, 238
Red-breasted, 151, 178	Pandion carolinensis, 127
Rocky Mountain, 77, 116, 178, 194, 206	haliaetus carolinensis, 40, 83, 163
Slender-billed, 25, 43, 138, 151	Partridge, California, 40, 160
Nuttallornis borealis, 41, 77, 167	Catalina, 66, 103
Nycticorax nycticorax nævius, 78, 79, 159, 197,	Gambel, 108, 147
202	Mearns, 108
O	Mountain, 40 Scaled, 93, 108
	Valley, 40, 137
Oceanodroma furcata, 49	Parus gambeli, 26, 30, 151
kaedingi, 49	gambeli <b>baileyæ</b> , new subspecies, 29
macrodactyla, 103	gambeli gambeli, 29
melania, 82, 126	inornatus, 139
Oidemia deglandi, 126	inornatus griseus, 25, 151
perspicillata, 126	rufescens, 133
Olbiorchilus hiemalis pacificus, 46	Passer domesticus, 13, 23, 42, 113, 138, 149, 171,
Oporornis tolmiei, 76, 115	198
Oreortyx pictus plumiferus, 40	Passerculus rostratus, 239
Oreospiza chlorura, 24, 43, 114, 151, 173	sandwichensis alaudinus, 113, 172
Oriole, Arizona Hooded, 44, 67	Passerella iliaca annectens, 238
Bullock, 22, 44, 84, 138, 149, 170, 191, 198,	iliaca fuliginosa, 46
204 Soott 75 112	iliaca iliaca, 50
Scott, 75, 112 Oroscoptes montanus, 25, 151, 177	iliaca insularis, 68, 85, 128, 238
Osprey, American, 40, 83, 127, 163	iliaca megarhyncha, 43, 128 iliaca meruloides, 238
Ostrich, South African, 119	iliaca schistacea, 173
Otis kori, 13	iliaca stephensi, 128
Otus asio bendirei, 203	Pelecanus californicus, 38, 83, 126
asio maxwelliæ, 143	erythrorhynchos, 157, 186, 196, 201
Otocoris alpestris, 138	Pelican, American White, 157, 186, 196, 201, 209
alpestris actia, 204	California Brown, 38, 83, 126
alpestris adusta, 111	Pemberton, J. R. (see Carriger, H. W.),
alpestris insularis, 84, 181	field notes from Central California, 50
alpestris leucolæma, 21, 148, 167	Junco hyemalis hyemalis, 91; northern
alpestris occidentalis, 111	range of the Phainopepla, 238; notes on
insularis, 127	the Western Gnatcatcher, 239
Otogyps auricularis, 13	Penthestes atricapillus septentrionalis, 179
Ouzel, Water, 24, 43 (see Dipper)	gambeli, 43, 179
Owl, American Barn, 127, 138, 197, 203 American Long-eared, 163	neglectus, 182 rufescens, 43, 181
Burrowing, 21, 41, 84, 109, 127, 138, 147,	rufescens barlowi, 221
163, 197, 203	Perisoreus canadensis, 235
California Screech, 203	canadensis capitalis, 22, 168
Dusky Horned, 41	Petrel, Black, 82, 126
Horned, 138	Fork-tailed, 49
Long-eared, 138, 147, 163, 197, 203	Guadalupe, 103
Mexican Screech, 109	Kaeding, 49
Pacific Horned, 197, 203	Petrochelidon lunifrons, 24, 139, 150, 175, 198
Pygmy, 164	Pewee, Western Wood, 21, 77, 111, 127, 138,
Rocky Mountain Screech, 143, 207	167, 221
Saw-whet, 94, 163 Short-eared, 41, 163	Phainopepla, 72, 114, 139, 238
Spotted, 109	Phainopepla nitens, 114, 139, 238
Western Horned, 14, 21, 41, 109, 147, 163	Phalænoptilus nuttalli, 21, 110, 165
Ox-picker, Red-billed, 13	nuttalli californicus, 41, 66
Oxyechus vociferus, 20, 40, 78, 160, 197, 203	Phalacrocorax auritus albociliatus, 186, 189,
Oyster-catcher, Black, 47, 126, 130	196, 201
	dilophus albociliatus, 38, 82, 126,
P	dilophus cincinatus, 48
- 10	pelagicus resplendens, 38, 48, 83, 126
Paauw. 13	penicillatus, 48, 82, 126

Phalarope, Northern, 20, 159 Red, 126	Q
Wilson, 159, 203	Quail, California, 40, 221
Phalaropus lobatus, 20, 159	Catalina, 66, 94
Phoebe, Black, 41, 67, 84, 111, 127, 138, 198,	Cape, 13
204, 222	Gambel, 108
Say, 21, 45, 84, 111, 127, 138, 148, 166, 198	Mearns, 108
Pica nuttalli, 138, 204	Mountain, 40
pica hudsonica, 22, 41, 144, 168	Scaled, 108
Picoides americanus dorsalis, 164	Valley, 40, 203
Pigeon, Band-tailed, 40, 103, 137, 161	Querquedula cyanoptera, 158, 192, 196, 202
Pinicola enucleator montana, 170	discors, 157
Pipilo clementæ, 85, 128, 208	
consobrinus, 106	R
crissalis crissalis, 43	
fuscus crissalis, 139	Rail, Carolina, 197
fuscus mesoleucus, 114	Sora, 20, 39, 159
maculatus arcticus, 173	Virginia, 39, 159, 181, 202
maculatus clementæ, 68	Rallus obsoletus, 79
maculatus falcifer, 222	virginianus, 39, 159, 181, 202
maculatus megalonyx, 23, 138, 150, 198,	Raven, 204
208	American, 22, 42, 44, 112, 127, 148, 168
maculatus montanus, 114, 173, 205	Mexican, 67, 84, 130
Pipit, American, 24, 43, 86, 115, 128, 151, 177	White-necked, 13, 112
Tree, 223	Ray, Milton S., from Big Creek to Big Basin,
Piranga erythromelas, 174	219
hepatica, 75, 114	Recurvirostra americana, 159, 197, 203
ludoviciana, 24, 75, 85, 150, 174, 181	Redpoll, 23, 142, 171
rubra cooperi, 75, 85, 114	Redstart, American, 151, 191, 193, 227
Pisobia minutilla, 197	Painted, 76, 115
Planesticus migratorius propinquus, 180	Regulus calendula, 26, 116, 129, 151, 179
Plegadis guarauna, 197, 202	calendula obscurus, 105
Plover, Black-bellied, 50, 126	satrapa olivaceus, 44, 123, 133, 179
Mountain, 160	Rhea, 69
Snowy, 83, 126, 197	Rhea americana, 69
Pochard, 224	darwini, 69
Podasocys montanus, 160	Rhodinocichla, 226
Podilymbus podiceps, 38, 196, 201	Richards, George, an unusual nesting local-
Podiœcetes phasianellus campestris, 161	ity for the Rocky Mountain Creeper, 194
Poœcetes gramineus confinis, 23, 113, 149,	Richardson, Chas. H., Jr., spring notes from
171	Catalina Island, 65; a curious bird tragedy,
Poor-will, 21, 110, 165	91; how large a bird can the California
Dusky, 41, 66	Shrike kill?, 92
Polioptila cærulea obscura, 129, 139, 151, 179,	Ridgway, Robert, review of his "Birds of North
205, 239	and Middle America, Part IV'', 130
Polyborus lutosus, 106	Riparia riparia, 139, 175
Porzana carolina, 20, 39, 159, 197	Rissa tridactyla pollicaris, 238
Pratincole, Nordmann, 12	Ritter, William E., Mr. Rockwell's suggestion
Progne subis, 24, 174	of cooperation in ornithological studies,
subis hesperia, 139	235
Psaltriparus minimus californicus, 44, 139, 205	Roadrunner, 109, 138, 197, 203, 206
minimus minimus, 129, 222	Robin, Western, 26, 43, 151, 180, 206
plumbeus, 77, 116, 151, 179	Rockwell, Robert B., nesting of the Western
Psittacula, 226	Horned Owl in Colorado, 14; some hints
Ptarmigan, Southern White-tailed, 20	on the preparation of an oological col-
Ptychoramphus aleuticus, 49, 82, 104, 125	lection, 86; red-winged Blackbirds of Col-
Publications reviewed, 52, 96	orado, 93; an annotated list of the birds
Puffin, Horned, 142	of Mesa County, Colorado, 152; a one-
Tufted, 49	legged Red-winged Blackbird, 182; a
Puffinus griseus, 103, 126	striking example of protective colora-
opisthomelas, 103, 126	tion, 207; a plan for cooperative ornithol-
Pyrocephalus rubineus mexicanus, 91, 111	ogy, 208

S Solitaire, Townsend, 26, 44, 116, 151, 179 Sora, 20, 39 Salpinctes obsoletus, 25, 43, 94, 115, 128, 129, Sparrow, Baird, 113 130, 151, 178 Bell, 85 obsoletus guadalupensis, 105 Black-throated, 45 obsoletus pulverius, 86, 129 Brewer, 23, 113, 149, 206 Sanderling, 126 Bryant Marsh, 28 Sandpiper, Baird, 159 California Sage, 204 Bartramian, 160 Cassin, 114 Least, 126, 159, 197 Chipping, 235 Pectoral, 159 Desert, 149 Solitary, 160 Eastern Fox, 50 Spotted, 20, 83, 126, 130, 160, 197, 235 English, 13, 23, 42, 113, 138, 149, 171, 198 Western, 203 Forbush, 182 Sapsucker, Northern Red-breasted, 130 Fox, 139, 237 Red-naped, 21, 84, 110, 164 Gambel, 149 Williamson, 110, 147, 164 Golden-crowned, 42, 67, 85, 128, 129 Sayornis nigricans, 41, 67, 84, 111, 127, 138, Harris, 84 198, 204 Heermann Song, 198, 205 nigricans nigricans, 222 Intermediate, 42, 67, 85, 113, 128, 172, 235 saya, 21, 84, 111, 127, 138, 148, 165, 198 Kadiak Fox, 85, 128 Scolecophagus cyanocephalus, 138, 149 Lincoln, 43, 114, 150, 173 Scoter, White-winged, 126 Mendocino Song, 43 Surf, 126 Mountain Song, 23, 149, 173 Secretary-bird, 113 Nuttall, 130 Seiurus noveboracensis, 227 Rufous-crowned, 128 noveboracensis notabilis, 150 Rusty Song, 46 motacilla, 236, 237 Sage, 149, 173 Selasphorus alleni, 66, 84, 127 Samuels Song, 43 platycercus, 21, 110, 148, 208 San Clemente Song, 43 rufus, 47, 165 San Diego Song, 182 Serpentarius secretarius, 13 Santa Barbara Song, 128 Setophaga picta, 76, 115 Scott Rock, 114 ruticilla, 151, 193, 227 Slate-colored, 173 Sharp, C. S., late nesting of the Green-backed Song, 142 Goldfinch, 237 Sooty Fox, 46 Shearwater, Black-vented, 126 Stephens Fox, 128 Dark-bodied, 126 Thick-billed, 43, 128 Sheldon, Harry H., three nests of note from Townsend, 142 northern California, 120 Western Chipping, 23, 42, 68, 113, 149, 172, Shrike, California, 92, 139, 198, 205 Island, 128, 182 Western Lark, 23, 42, 128, 138, 149, 172, Northern, 175 198, 204 San Clemente, 85, 182 Western Savanna, 113, 128, 172 White-rumped, 24, 43, 115, 150, 175 Western Tree, 149, 172 Sialia arctica, 26, 44, 50, 94, 116, 151, 180 Western Vesper, 23, 113, 149, 171 mexicana bairdi, 116, 151, 180 White-crowned, 23, 149, 172 mexicana occidentalis, 44, 139, 198, 205 White-throated, 94, 235 Sitta canadensis, 43, 105, 151, 178 Yakutat Fox, 50 carolinensis aculeata, 25, 43, 139, 151 Spatula clypeata, 39, 158, 202 carolinensis nelsoni, 77, 116, 178, 194 Speotyto cunicularia becki, 104, 127 pygmæa, 25, 116, 151, 178 cunicularia hypogæa, 21, 41, 84, 104, 109, Siskin, Pine, 23, 113, 149, 171, 234, 235 138, 147, 163, 197, 203 Sittasomus, 227 Sphyrapicus ruber nootkensis, 130 Snipe, Wilson, 40, 159 thyroideus, 110, 147, 164 Smith, Austin P., is the Mountain Bluebird varius nuchalis, 21, 84, 110, 164 resident at high altitudes?, 50; some data Spinus pinus, 23, 113, 149, 171, 234 and records from the Whetstone Moun-Spizella breweri, 23, 113, 149 tains, Arizona, 75; destruction of Imperial monticola ochracea, 149, 172 Woodpeckers, 91; Blackburnian Warbler passerina, 235 noted at Fort Brown, Texas, 92; brain parasite in the White-necked Raven, 92; alsocialis arizonæ, 23, 42, 68, 113, 149, 172,

binism of the Scaled Partridge, 93

Squatarola squatarola, 126	Thomas, Gerald B., the Mexican Black Hawk,
Starling, Wattled, 13	116
Steganopus tricolor, 159, 203	Thrasher, Brown, 115
Stelgidopteryx serripennis, 150	California, 139, 198, 205, 222
Stellula calliope, 192	Leconte, 205, 237
Sterna antillarum, 237	Palmer, 115
caspia, 186, 196	Sage, 25, 151, 177
forsteri, 50, 196, 201	Thrush, Alaska Hermit, 44, 121
hirundo, 50	Audubon Hermit, 116, 151, 179
maxima, 82, 126	Dwarf Hermit, 68, 86, 129, 151
Stewart, George W., the Condor in the San	Grinnell Water, 150
Joaquin Valley, 130	Hermit, 139
Stilt, Black-necked, 159, 197, 203, 228	Thrush, Monterey Hermit, 44, 121, 133, 134,
Stork, European, 12	221
White-bellied, 12	Olive-backed, 179, 191, 193
Strix pratincola, 127, 138	Rose-breasted, 226
Sturnella magna hoopesi, 112	Russet-backed, 44, 46, 86, 129, 193, 221
magna neglecta, 42, 84, 138, 149	Varied, 44, 86, 91, 139
neglecta, 22, 112, 127, 170, 198, 204	
Swallow, Bank, 139, 175	Thryomanes bewicki charienturus, 68
the state of the s	bewicki drymœcus, 205
Barn, 24, 43, 46, 150, 175, 205	bewicki eremophilus, 115
Cliff, 24, 139, 150, 175, 198	bewicki leucogaster, 151, 178
Northern Violet-green, 43, 114	bewicki spilurus, 198
Rough-winged, 150	brevicaudus, 105
Tree, 139, 175, 198, 205, 222	nesophilus, 128
Violet-green, 24, 139, 150, 175, 195, 206	leucophrys, 86
Swarth, Harry S., some fall migration notes	Tinnunculus rupicolis, 13
from Arizona, 107	Titmouse, Bridled, 77, 116
Swift, Black, 165, 192	Gray, 25, 151, 178
White-throated, 66, 84, 110, 127, 138, 165, 192	Plain, 139
Vaux, 221, 222	Totanus flavipes, 159
Symphemia semipalmata inornata, 79, 160	melanoleucus, 159
Synthliboramphus antiquus, 125	Towhee, Abert, 237
Syrnium occidentale, 109	Arctic, 173
T	California, 43, 139
•	Canyon, 44, 114
Tachycineta bicolor, 139, 198, 222	Green-tailed, 24, 43, 114, 150, 173
thalassina, 175	Mountain, 114, 173, 206
thalassina lepida, 24, 43, 114, 139, 150	San Clemente, 68, 85, 128
Tachyphonus, 227	San Francisco, 222
Tanager, Cooper, 78, 85, 114	Spurred, 23, 138, 150, 198, 205
Hepatic, 114, 75	Townsend, C. W., and Glover M. Allen, review
Louisiana, 174, 191	of their "Birds of Labrador", 54
Scarlet, 174	Towestome curving the malus of 14.
Western, 24, 85, 150, 181	Toxostoma curvirostre palmeri, 115
Tanagra cana, 227	lecontei, 201, 205
Tattler, Wandering, 83, 126, 130	redivivum, 139, 198, 205
Teal, Blue-winged, 157	redivivum redivivum, 222
Cinnamon, 158, 192, 196, 202	rufum, 115
Common, 224	Tringa minutilla, 126
Green-winged, 129, 157, 196, 201	Trochilus alexandri, 110, 148, 165
Tern, American Black, 196	anna, 105
Black, 20, 157, 201, 209	platycercus, 165
Caspian, 186, 196, 209	Troglodytes aedon aztecus, 25
Common, 50	aedon parkmani, 50, 115, 139, 151, 178, 205
Least, 237	Turkey, Merriam, 147
Forster, 196, 201, 209	Turnstone, Black, 83, 126, 130
Royal, 82, 126	Ruddy, 50
Telmatodytes palustris paludicola, 205	Turtur capicola, 13
palustris plesius, 178	Tyrannus tyrannus, 21, 165
Thayer, John E., and Outram Bangs, the present	verticalis, 21, 84, 110, 138, 148, 165, 198, 204
state of the ornis of Guadalupe Island, 101	
batte of the office of Ottavarupe Island, 101	vociferans, 127, 148, 166

pusilla chryseola, 221 U Wren, Baird, 151, 178 Uria troile californica, 49 Cactus, 45, 115 Canyon, 115, 178 Urubitinga anthracina, 116, 181 Desert, 115 Dotted Canyon, 128 Interior Marsh, 178 Van Fleet, Clark, C., the Western Tanager in Parkman, 115, 139, 151, 205 Rock, 25, 43, 94, 115, 128, 130, 151, 178 San Francisco, 181 Vireo bellii pusillus, 198, 205 gilvus swainsoni, 150, 176, 193 San Clemente, 86 San Diego, 68 huttoni, 181 San Joaquin, 205 huttoni mailliardorum, 128 San Nicolas Rock, 86 huttoni oberholseri, 181 Santa Cruz Island, 128 huttoni stephensi, 115, 230 Tule, 205 mailliardorum, 181 Vigors, 198 olivaceus, 193 Western House, 25, 178 solitarius cassini, 193 Western Winter, 43, 46, 121, 219, 220, 221 solitarius plumbeus, 150, 176 Wren-tit, Intermediate, 222 Vireo, Cassin, 193 Northern, 43 Least, 198, 205 Pallid, 139 Plumbeous, 150, 176, 206, 230, 231 Red-eyed, 191, 193 Ruddy, 44 Wright, Howard W., a Vermilion Flycatcher in Los Angeles County, California, 91; a Santa Cruz Island, 128 Stephens, 115, 206, 230, 232 Western Warbling, 150, 176, 193, 230, 233 Vireosylva gilva swainsoni, 230 death struggle, 93 Woodpecker, Alpine Three-toed, 164 Ant-eating, 76 Arizona, 76, 110 Vulture, African Black, 13 California, 197 Baird, 44 Turkey, 138, 147, 161, 197, 203 Batchelder, 147, 164 Cabanis, 109, 138 California, 41, 93, 138, 222 Gairdner, 41 Warbler, review of Vol. III of the, 54 Gila, 76, 110 Warbler, Audubon, 24, 43, 68, 76, 86, 115, 133, Imperial, 91 Lewis, 21, 41, 93, 164, 195 150, 176 Blackburnian, 92 Mearns, 110 Black-poll, 235 Northern Pileated, 41 Black-throated Gray, 43, 76, 115, 133, 150, Nuttall, 138, 198 Red-headed, 21 176, 206 Black-throated Green, 193 Rocky Mountain Hairy, 164 Calaveras, 43 Texas, 110 California Yellow, 198, 205 White-headed, 41 Dusky, 68, 86, 128 Golden Pileolated, 221 Willow, 138, 203, 222 Lucy, 76, 150, 206 Х Lutescent, 46, 176 Orange-crowned, 128 Pileolated, 43, 76, 115, 151, 177 Xanthocephalus xanthocephalus, 22, 94, 112, 148, 169, 198, 204 Sonora Yellow, 45 Xenopicus albolarvatus, 41 Tolmie, 76, 115, 150, 177 Townsend, 76, 94, 115, 128, 176, 193 V Virginia, 176 Yellow, 24, 46, 150, 176 Warren, Edward R., Northwestern Colorado Yellow-legs, Greater, 159

bird notes, 18

Willet, Western 160

Water-Thrush, Louisiana, 236 Waxwing, Bohemian, 175

Widmann, Otto, review of his "A Preliminary

Willard, F. C., an Arizona nest Census, 44; Huachuca Notes, 206; three Vireos: nest-

Willett, G., Common Tern and Ruddy Turn-stone in Southern California, 50; summer birds of the upper Salinas Valley and ad-

Wilsonia pusilla pileolata, 43, 76, 115, 151, 177

ing notes from the Huachuca Mountains,

Catalog of the Birds of Missouri", 54

Cedar, 24, 43, 150

jacent foothills, 137

Water-ouzel, 222

Lesser, 159 Yellow-throat, Pacific, 205

Western, 151

Zamelodia melanocephala, 24, 114, 139, 150, 173 melanocephala capitalis, 220 Zenaidura carolinensis, 20, 66 macroura, 83, 108, 127, 137, 147, 161 macroura carolinensis, 197, 203 Zonotrichia albicollis, 50, 94 coronata, 42, 67, 85, 92, 128, 129 leucophrys, 23, 149, 172 leucophrys gambeli, 42, 67, 85, 113, 128, 149, 172, 235 leucophrys nuttalli, 130 querula, 84

 $\boldsymbol{Z}$